The Department of Mathematics
2023–24–A term

Course Name  Basic Concepts in Topology and Geometry

Course Number  201.2.5221

Course web page  https://www.math.bgu.ac.il/en/teaching/fall2024/courses/basic-concept-in-toplogy-and-geometry

Lecturer  Dr. Ishai Dan-Cohen, <ishaida@bgu.ac.il>, Office 214

Office Hours  https://www.math.bgu.ac.il/en/teaching/hours

Abstract

Requirements and grading

Course topics

- Topological manifolds. The fundamental group and covering spaces. Applications.

- Singular homology and applications.

- Smooth manifolds. Differential forms and Stokes' theorem, definition of de-Rham cohomology.

- Additional topics as time permits.

---

Information may change during the first two weeks of the term. Please consult the webpage for updates.